Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-24-05** **Date: 27/03/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/111/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-18

Sample ID No : 2018-03-24-05/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/03/2018	27/03/2018	150.22 X 150.24 X 150.27	22569	8.345	390.4	17.3	17.3
2	M20 Concrete	M20	20/03/2018	27/03/2018	150.28 X 150.29 X 150.30	22586	8.367	393.0	17.4	
3	M20 Concrete	M20	20/03/2018	27/03/2018	150.31 X 150.20 X 150.25	22577	8.323	386.1	17.1	

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-24-05** **Date: 17/04/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub-Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/111/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-18

Sample ID No : 2018-03-24-05/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/03/2018	17/04/2018	150.21 X 150.24 X 150.27	22568	8.324	521.3	23.1	23.4
2	M20 Concrete	M20	20/03/2018	17/04/2018	150.26 X 150.29 X 150.24	22583	8.354	535.2	23.7	
3	M20 Concrete	M20	20/03/2018	17/04/2018	150.28 X 150.20 X 150.25	22572	8.378	525.9	23.3	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-24-06** **Date: 28/03/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/111/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-18

Sample ID No : 2018-03-24-06/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	21/03/2018	28/03/2018	150.21 X 150.24 X 150.27	22568	8.332	408.5	18.1	18.3
2	M20 Concrete	M20	21/03/2018	28/03/2018	150.28 X 150.29 X 150.22	22586	8.355	417.8	18.5	
3	M20 Concrete	M20	21/03/2018	28/03/2018	150.28 X 150.20 X 150.25	22572	8.343	410.8	18.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-24-06** **Date: 18/04/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/111/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-18

Sample ID No : 2018-03-24-06/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	21/03/2018	18/04/2018	150.24 X 150.27 X 150.29	22577	8.333	512.5	22.7	23.0
2	M20 Concrete	M20	21/03/2018	18/04/2018	150.28 X 150.22 X 150.24	22575	8.376	517.0	22.9	
3	M20 Concrete	M20	21/03/2018	18/04/2018	150.32 X 150.25 X 150.31	22586	8.382	528.5	23.4	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-17-05** **Date: 19-03-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-03-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg, Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-17-05** **Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-03-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-17-05** **Date: 20-03-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	689	689	4.6	95.4	90-100
3	20 mm	6273	6962	46.4	53.6	30-70
4	10 mm	5281	12243	81.6	18.4	10-35
5	4.75 mm	2144	14387	95.9	4.1	0-5
6	Pan	613	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Sample ID No : 2018-03-17-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.5**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.18**	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-17-05** **Date: 20-03-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/02(b)
Sample Type/ Size	:	12.5mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 12.5MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	20mm	0	0	0	100	100
2	12.5 mm	437	437	8.7	91.3	90-100
3	10 mm	2453	2890	57.8	42.2	40-85
4	4.75 mm	1637	4527	90.5	9.5	0-10
5	Pan	473	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Sample ID No : 2018-03-17-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.46**	_
5	Bulk Density(Compacted) (Kg/l)	**1.49**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**22.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.7**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/111/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-18

Sample ID No : 2018-03-17-05/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	83	83	8.3	91.7	90-100	90-100	90-100	95-100
3	2.36 mm	134	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	166	383	38.3	61.7	30-70	55-90	75-100	90-100
5	600 micron	179	562	56.2	43.8	15-34	35-59	60-79	80-100
6	300 micron	187	749	74.9	25.1	5-20	8-30	12-40	15-50
7	150 micron	154	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE Ward No 6

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Sample ID No : 2018-03-17-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.31	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-03-17-05** **Date: 20-03-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/05
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	17-03-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	200	16080	34.260	2130.6	2133.8	Not less than 1800Kg/m^3
2	401	200	201	16120	34.620	2147.6		
3	401	202	201	16281	34.57	2123.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.850	33.180	5.03	5.27	Shall not be more than 10% by mass
2	34.810	33.010	5.45		
3	35.480	33.690	5.31		

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Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Sample ID No : **2018-03-17-05/05**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	201	200	
3	401	200	201	
4	401	201	200	
5	399	200	201	
6	400	200	201	
7	402	201	202	
8	401	202	203	
9	400	201	200	
10	401	200	201	
11	401	201	202	
12	400	202	201	
13	400	203	200	
14	402	202	201	
15	400	201	200	
16	399	202	201	
17	401	203	201	
18	400	200	202	
19	400	201	203	
20	401	201	200	
Average of 20	**401**	**201**	**201**	

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Lab ID : **CP-2018-03-17-05** **Date: 20-03-18**

Sample ID No : 2018-03-17-05/05

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	342.5	4.3	4.1
2	400	201	80400	328.6	4.1	
3	401	200	80200	319.7	4.0	
4	401	201	80601	331.5	4.1	
5	399	200	79800	335.2	4.2	
6	400	200	80000	321.5	4.0	
7	402	201	80802	324.6	4.0	
8	401	202	81002	327.5	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-17-05** **Date: 19-03-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Balance work compound wall, DG Room, officeroom, Parking area and toilets at Samudaya Bhavana Hegdenagara (near Dry Waste Collection Centre) in Ward no.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/111/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-18
Sample ID No	:	2018-03-17-05/04
Sample Type	:	Indus steel
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus steel	Fe500	8	0.392	520	622	20.0%	Satisfactory	Satisfactory
2	Indus steel	Fe500	10	0.615	532	625	20.0%	Satisfactory	Satisfactory
3	Indus steel	Fe500	12	0.887	541	649	19.0%	Satisfactory	Satisfactory
4	Indus steel	Fe500	16	1.582	551	662	19.0%	Satisfactory	Satisfactory
5	Indus steel	Fe500	20	2.471	563	674	19.0%	Satisfactory	Satisfactory
6	Indus steel	Fe500	25	3.851	585	689	18.5%	Satisfactory	Satisfactory
6	Indus steel	Fe500	32	6.311	694	703	19.0%	Satisfactory	Satisfactory

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R KARTHIK RECHAN
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Quality Manager